DPM 5023

MONSANTO PRODUCT NAME

# MCS-352 HYDRAULIC ASSEMBLY LUBRICANT

MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167

(Call Collect) 314-694-1000

#### PRODUCT IDENTIFICATION

CAS No.:

MCS-352 lubricant is a proprietary mixture of components. It has no CAS number. All components appear on the inventory of chemical substances published by the U.S. Environmental Protection Agency.

Chemical Family:

Phosphate ester

**DOT Hazard Class:** 

Product is not classified as a hazardous material by the U.S.

Department of Transportation.

DOT Label Requirement:

**Product Label** 

Reportable Quantity (RQ)
Under U.S. Clean Water

Act Regulations:

Not Listed

## **WARNING STATEMENTS**

CAUTION!

MAY CAUSE IRRITATION TO EYES AND SKIN

#### PRECAUTIONARY MEASURES

Avoid prolonged or repeated skin contact. Wear impervious gloves Do not get in eyes. Wear chemical safety goggles.

## **EMERGENCY AND FIRST AID PROCEDURES**

FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Call a physician.

IF ON SKIN, immediately flush with plenty of water. Wash skin thoroughly with soap and water. Remove contaminated clothing. Wash clothing before reuse.

# **OCCUPATIONAL CONTROL PROCEDURES**

Eye Protection:

Wear chemical safety goggles to prevent eye contact.

Skin Protection:

Wear protective gloves to minimize skin contact.

Respiratory

Protection:

Use NIOSH approved equipment with full facepiece when airborne exposure is

excessive. Consult respirator manufacturer to determine appropriate type

equipment for given application.

Ventilation:

Provide ventilation to minimize exposure. Local exhaust ventilation preferred.

(Occupational Control Procedures Continued On Next Page)

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# **OCCUPATIONAL CONTROL PROCEDURES (Continued)**

**Airborne** 

No permissible exposure limit or threshold limit value has been established by OSHA Exposure Limits:

or the ACGIH for MCS-352 Hydraulic Assembly Lubricant.

Contains: Tributyl Phosphate (CAS No. 126-73-8)

OSHA PEL/TWA: 5 mg/m<sup>3</sup> (0.4 ppm) ACGIH TLV®/TWA: 2.5 mg/m<sup>3</sup> (0.2ppm) ACGIH TLV/STEL: 5 mg/m<sup>3</sup> (0.4 ppm)

# FIRE PROTECTION INFORMATION

Flash Point:

>350°F

Method:

Cleveland Open Cup

Extinguishing Media:

Dry powder, carbon dioxide, chemical foams, and water fog.

Special Firefighting

Procedures:

When fighting any chemical fire, firefighters should wear full protective clothing

and self-contained breathing apparatus.

Unusual Hazards:

Oxides of phosphorus may be produced in fires along with carbon monoxide

(CO), carbon dioxide (CO<sub>2</sub>), soot, smoke, and hydrocarbons.

## REACTIVITY DATA

**Hazardous Decomposition** 

**Products:** 

Oxides of phosphorus may be produced in fires along with CO, CO2,

soot, smoke, and hydrocarbons.

Hazardous Polymerization:

Does not occur.

#### PHYSIOLOGICAL EFFECTS SUMMARY

Oral LD<sub>50</sub> (Rat): 4,307 mg/kg, Slightly Toxic

Dermal LD<sub>50</sub> (Rabbit)

: >2,000 mg/kg, Slightly Toxic

Eye Irritation (Rabbit)

(Avg. Max.) 2.6 on a scale of 110.0, Slightly Irritating

Skin Irritation (Rabbit)

: (Avg. Max.) 0.4 on a scale of 8.0, Practically Nonirritating

Aerosol Inhalation (Rat): 0 out of 10 rats died when exposed to nominal concentration of 4.15

mg/l air of a minor component of this material for 4 hours.

#### PHYSICAL DATA

Appearance:

Very viscous purple oil

Boiling Point @ 760 mm Hg:

350°C (with decomposition)

**Pour Point:** 

20°F

Specific Gravity @ 25/25°C:

1.02

Viscosity @ 210°F:

190-225 centistokes

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

# Monsanto Material Safety Data

# SPILL, LEAK & DISPOSAL INFORMATION

Waste Disposal:

Waste product should be incinerated or disposed of in a hazardous waste

landfill which complies with local, state, and federal regulations.

Spill or Leakage Procedures:

Spills should be absorbed on a suitable medium such as sawdust, clay or

filtercel.

This material should not be dumped, spilled, rinsed, or washed into sewers or

public waterways.

**DATE:** 12/19/83

**REVISED:** 

SUPERSEDES:

MSDS NO.: M00006601

FOR ADDITIONAL NON-EMERGENCY INFORMATION, CONTACT:

Monsanto Company 800 N. Lindbergh Blvd. St. Louis, MO 63167 314-694-1000

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This form has been approved by the Occupational Safety and Health Administration as "equivalent to" OSHA Form 20.

# Monsanto MATERIAL SAFETY DATA